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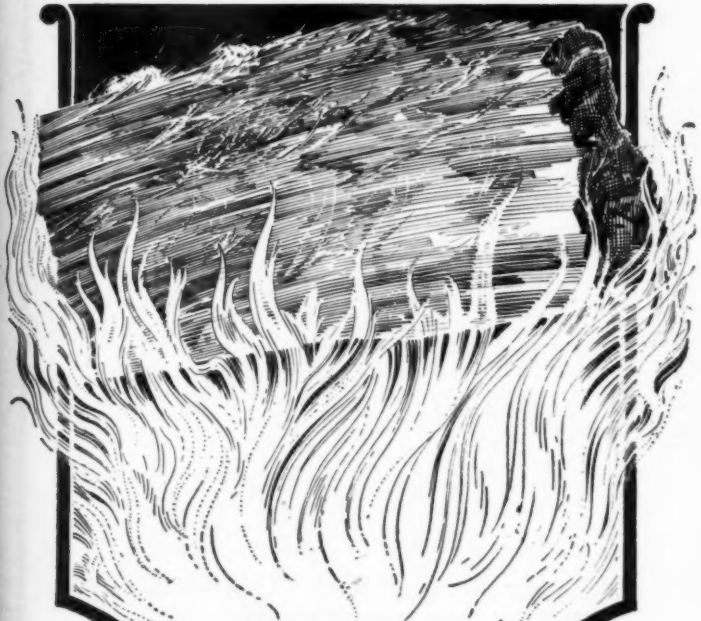
Vol. 9 APRIL 1928 No. 10



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DEVOTED TO THE INTERESTS OF THE ASBESTOS AND MAGNESIA INDUSTRIES

A. S. ROSSITER - - - EDITOR

PUBLISHED BY

C. J. STOVER

PHILADELPHIA, - PENNSYLVANIA

Entered As Second Class Matter November 23, 1923, at the Post Office at Philadelphia, Pennsylvania, Under Act of March 3, 1879

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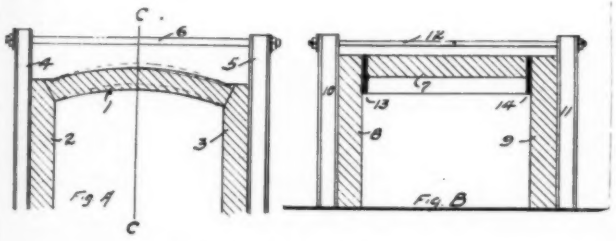
Relation of production various Canadian grades and comparing with African and Cyprus production
(Tons-2000 lbs. No Asbestic included)
Cyprus - 12,544 tons
Cyprus - 6,940 tons
Rhodesia - 33,175 tons
Rhodesia - 33,344 tons
Union of South Africa - 22,133 tons
Union of South Africa - 14,096 tons
Canada - 274,783 tons, All Grades
Canada - 300,493 tons, All Grades
Canada - 3808 tons } Crudes
Canada - 4150 tons }
Canada - 12,712 tons } Spinning Fibre
Canada - 14,282 tons }
Canada - 45,892 tons } Shingle Stock
Canada - 34,134 tons }
Canada - 212,371 tons, Paper and Other
Canada - 247,927 tons, Paper and Other
223346 tons Imported by United States of America From all Sources
260226 tons Imported by United States of America From all Sources
1927 1926
Showing Relation of Rock Mined to Usable Asbestos Produced in Canada
1927
4,825,740 tons Rock Mined
274,783 tons Asbestos
4002626 tons Rock Milled
1926
4,483,361 tons Rock Mined
3832574 tons Rock Milled

The Expansion Joint and Asbestos

By H. C. Charles

In furnace construction refractory materials are necessarily used. Refractories expand with the increase in furnace temperature and contract with the decrease. Thruout the walls, floor and arch some provision must be made to take care of this expansion. Joints made of asbestos fire felt, which is a felt built up of asbestos fibre in sheets of varying thickness, form an ideal method.

For example, refer to the accompanying drawing showing a furnace arch. In view "A" will be seen a cross section of the upper portion of the furnace and arch. The arch (1) is resting on the walls (2 and 3), the latter being secured against spreading by the buckstays (4 and 5) tied together by the tie rod (6). Upon heating, the arch (1) expands and rises in the center, as shown by the dotted lines.



View "B" shows a longitudinal section along the line "CC" of figure "A." The arch is shown at 7, the end walls at 8 and 9, the end buckstays at 10 and 11, held together by the rod 12. At 13 and 14 is shown the expansion joint filled with asbestos. Obviously, the arch grows in length as time passes. The only direction in which the arch goes is outward, but without an expansion joint it would crush the brick and then, when the furnace cools, crevices would occur in the roof.

The object of the expansion joint is to eliminate to

a certain degree this tendency toward the destruction of the arch and therefore increase the useful life of the furnace. With the expansion joint of asbestos the arch can expand freely without danger of crushing the elements of the arch or side walls and yet when the furnace cools there is sufficient resiliency in the asbestos to take up the void.

There is little to be gained in making the expansion joint small, as the compressibility of the asbestos in that event would be exceeded by the expansion of the arch and the trouble only partially eliminated. The expansion joint should be at least one inch wide at each end of the arch for each five feet of arch length. In other words an arch ten feet long should be provided with a total of approximately four inches of expansion space filled with asbestos. The joint should extend the full thickness of the arch; that is, if the arch is constructed of wedge brick and is nine inches thick, then the asbestos joint should be nine inches thick as well. Nothing is gained by making the expansion joint extend only partly thru the arch.

We must not overlook the matter of protection of the asbestos in the case of high temperature furnaces, i. e. furnaces designed to work at 1000 deg. or over. In such cases the joint is placed further over the end walls in such manner that the end wall inner refractory will protect the asbestos from direct contact with the flame. The arch is thus prolonged over the end wall to the extent of one half its thickness; that is, if the end wall is nine inches thick, the arch extends 4½ inches over the wall, allowing a course of end wall brick 4½ inches to extend up past the end of the arch and effectively sealing the arch high point.

Figure "A" is included in this article, not only to assist in illustrating the expansion of the arch but also to illustrate that an expansion joint transversely of the arch is unnecessary. In fact such would be a detriment here since its resiliency would be immediately destroyed and the arch would settle. The bricks would open up on the inner circle of the arch, providing an excellent means for the flame of the combustion material to lap three sides of each brick and soon wash away the arch. It is good practice to lay the arch with the brick opened just slightly along their outer circle.

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The expansion of the side and end walls is also a matter of importance and should be considered in the furnace construction. Figure "C" illustrates a horizontal section thru the furnace. The four walls are shown at 1, 2, 3 and 4 respectively. Obviously without an expansion joint in these walls they must either move the buckstays outward, crush the brick or buckle. If the furnace is large for its wall thickness the latter may occur. If the buckstays are not firmly anchored or tied together at frequent intervals along their length they will bow outward to a considerable extent Cracked brick in the wall after a period of operation will be noticeable.

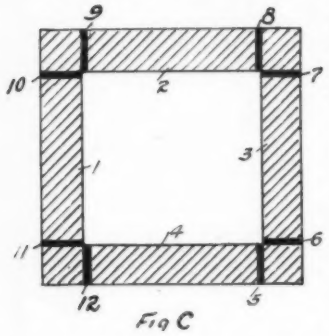

Fig C

To eliminate these consequences the expansion joints 5, 6, 7, 8, 9, 10, 11 and 12 are provided vertically in the walls. The position of this joint is shown at the juncture of the walls, that is, at the corners. The drawback to this is that the corner of the furnace is not tied in with each wall, but this can be taken care of by sheeting the furnace with steel sheets between the buckstays and the brickwork. This sheeting is an added protection for the furnace and prevents the growth of individual bricks or sections of the walls to the extent that they project out past the normal surface producing an unsightly furnace. In other words, plain exposed brick walls for furnace construction is not the best in the world and possesses some decidedly bad features. Infiltration of air is excluded by the sheeting which constitutes an important consideration with heat-treating furnaces, boiler furnaces and others.

As in the case with the arch the asbestos expansion joint is made the full width of the wall and extends from top to bottom. One of the advantages of this construction, besides being useful in prolonging the life of the furnace is to make the repair of any one of the walls a simple matter.

Johns-Manville

CORPORATION

■

Commander Henry F. Grier

It is with great regret that we learn of the death of one of the veterans in the insulation industry.

Commander Henry F. Grier, Vice President of the Central Asbestos & Magnesia Company of Chicago, passed away on Thursday, April 5th at Chicago, his death being due to pneumonia.

Mr. Grier was born at Lewisburg, Pa., on May 30, 1843, and was interested in the pipe covering industry for 57 of of his 85 years.

He began work as manager of the Chalmers-Spence Company, St. Louis, on October 1st, 1870, when the best insulation material for pipes and boliers was a mixture of fire clay, charcoal and sawdust, ground fine, mixed with water, and having cattle hair for a binder, and was last at his office on Saturday, March 31st, 1928.

Mr. Grier was a Civil War veteran, having been called into Union Service to guard prisoners taken at Gettysburg, when he was in his 2nd year at Bucknell University. At the time of his death he was the oldest living Alumnus of Bucknell.

During Civil War service, Mr. Grier was a shipmate of Robley D. (Fighting Bob) Evans, and a friendship was formed that lasted as long as Evans lived.

The funeral was held on Tuesday, April 10th.

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Chemical Analysis of Asbestos[1]

By E. G. Bryant

At the present time a good deal of attention is being paid to the chemical composition of various grades of asbestos in South Africa, more especially with reference to crocidolite (blue asbestos).

We find, however, that the suitability of asbestos for any purpose depends essentially on its physical properties and apart from the presence or absence of iron as affecting its electrical conductivity, chemical composition seems to have little effect on such properties as flexibility, tensile strength, and so on. Analyses of asbestos are of as little use to the actual user in the case of asbestos as they would be in the case of mica, corundum or diamonds, whereas for metallic ores such information is all important.

As will be seen from the following figures compiled from Dr. A. L. Hall's "Asbestos in South Africa," the composition of blue asbestos, "discolored" blue and of amosite, are essentially alike, tho in physical qualities they differ very considerably. The "hard" blue of Prieska, the "soft" blue of Kuruman, "cross-fibre" and "slip-fibre," and even the very mother rock, itself devoid of anything but microscopic fibrous characters and called by Hall "griqualandite" are impossible to differentiate chemically.

	Silica	Iron Oxide	Magnesia	Soda	Water
Blue Asbestos I	51.1	35.8	2.3	6.9	3.9
Discolored Blue	57.46	37.56	...	...	5.15
Griqualandite	56.75	37.64	.1	...	4.96
Amosite I	50.24	39.2	3.96	2.12	3.00
Blue Asbestos II	56.27	33.78	1.67	3.92	...
Amosite II	49.72	37.00	3.77	... about 7%	2.29 also lime and alumina.

(Note: The iron has been all reckoned as ferrous oxide.)

The conditions under which the asbestos was originally formed, and its subsequent history, appear to be mainly responsible for its properties rather than any definite differ-

[1]Fifth in the Series on the "History of Asbestos"

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ences in chemical composition. The element which appears to have some actual determinative effect is sodium (soda) but it is doubtful whether there is enough evidence in this case to come to any definite conclusions, and it is at the same time the most troublesome constituent of all to evaluate.

Both the asbestos and the "mother" rock have undergone varied changes in the course of time. The latter would appear to have been originally a compact, dark blue material, but in many places it has become silicified into glass-hard yellow or brown jasper, while in others it has decomposed and oxidized into earthy and somewhat greasy, ochrous shale. Thru all these changes the asbestos has often remained totally unaltered, tho at times it has also been silicified into commercial crocidolite or "tiger-eye," become brittle and yellow or brown in color. In a few cases the mother rock has been totally replaced by lime, yet the asbestos has been unacted upon.

The yellow, red or brown varieties of crocidolite usually known as "discolored" fibre, are ordinarily considered to be due to the "weathering" of the blue material, and therefore a surface phenomenon. W. Olds, of the Cape Asbestos Company, who has done a great deal of prospecting work of late in the areas north of Kuruman, states, however, that in that region the blue fibre is "continually changing into yellow brittle fibre or into 'tiger-eye' every few feet," and in his opinion there are chemical changes in what was originally all good blue fibre due to infiltrating solutions. Therefore no improvement will probably be found at depth. Of course cases are known where discoloration and silicification are merely surface phenomena and disappear within a few feet. Around Prieska discolored fibre is a negligible quantity, but farther north it forms a large proportion of the output.

To sum up, it would appear that little evidence of practical importance can be obtained from chemical analysis of asbestos "cross-fibre," "slip-fibre"; griqualandite and even amosite seem to owe their characteristic properties mainly to the conditions, temperature and especially pressure under which they were laid down, and in a smaller de-

gree to later physical and chemical changes.

A comparison of analyses of the different varieties of Chrysotile, and Anthophyllite (commonly known as amphibole) with those of crocidolite, will be of interest: (The numbers refer to the number of the sample, *not* to the grade of material).

	Silica	Iron Oxide	Magnesia	Alumina	Water	Alkalies
Chrysotile						
Canada	39.05	2.41	40.07	3.67	14.48	
Russia No. 1	43.35	.15	41.85	.53	14.32	
Russia No. 2	42.45	.08	42.58	...	15.31	
Arizona	41.71	.50	41.99	2.80	12.81	.09
Rhodesia No. 1 ...	42.33	4.25	38.22	.57	14.48	
Rhodesia No. 2 ...	43.06	3.42	38.61	.62	14.41	
Crocidolite						
Blue No. 1	51.1	35.8	2.3	...	3.9	6.9
Blue No. 2	52.11	37.37	1.77	1.01	1.58	6.16
Amosite No. 1	50.24	39.80	3.06	...	3.00	2.12
Amosite No. 2 ...	49.48	38.25	6.77	.68	2.74	1.08
Anthophyllite						
(Sall Mt. Ga.)	57.12	6.36	29.44	.75	5.47	

It is also interesting to compare analyses of materials taken from the various districts in Canada, showing that even in the same general territory, the materials differ chemically.

	Silica	Iron Oxide	Magnesia	Alumina	Water
Thetford	39.05	2.41	40.07	3.67	14.48
Black Lake	39.36	3.31	42.15	...	14.50
East Broughton	39.20	2.95	42.97	...	13.87
Danville	41.84	2.23	41.99	...	14.28
Robertson	30.18	5.81	45.80	1.41	15.70
Coleraine	39.22	2.26	40.27	3.64	14.37

An installation of Italit Asbestos Cement Pipes will shortly be made in this country, partially for test purposes. We will watch this with interest.

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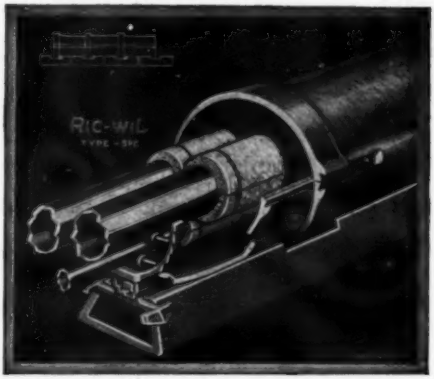

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Sir Mortimer B. Davis

While Sir Mortimer Barnett Davis, was not actively interested in the Asbestos Industry at the time of his death, most of our readers will recall him as owner of Consolidated Asbestos Limited of Montreal, which company merged with other asbestos mines a few years ago.

Sir Mortimer passed away at his villa, Golfe Ste. Juan, near Cannes, France, on Thursday, March 22nd, his death being due to heart disease, and the funeral was held in Montreal, on Thursday, April 12th.

Sir Mortimer was born in Montreal on February 6th, 1866. While most of his later life was lived abroad, he had the welfare of Canada at heart, and was keenly interested in both business and philanthropic enterprises centered in Canada.

Among the large corporations with which he was connected, the most notable are the Imperial Tobacco Company of Canada and the Canadian Industrial Alcohol Company, Limited, both of which he brought from small beginnings to corporations of great magnitude.

Sir Mortimer is survived by a son, Mortimer B. Davis, and by his widow, Lady Davis. Samuel Davis, sales representative of Asbestos Corporation Limited, is a nephew.

We would like to know the name of patentee, patent number, and date of granting of the patent (if there is one) for "Minwool." Who can tell us?

The Executive Office of the National Association of Purchasing Agents is now located at 9-15 Park Place, New York City. It was formerly located in the Woolworth Building. Some of our readers may belong to this very worthy organization.

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FACT AND FANCY

Introducing Mr. Kupferburger.

The Government of the Union of South Africa, has employed W. Kupferburger, a man who has lived in South Africa most of his life, for the purpose of making a study in the United States of Asbestos and other non-metallic minerals from the point of view of their utilization and application in industries, their preparation for the market, milling methods, marketing, etc.

Mr. Kupferburger's present headquarters is care of the Trade Commissioner for the Union of South Africa, at 11 Broadway, New York City, where he can be reached by mail, or in person by appointment.

As Mr. Kupferburger is thoroly familiar with the Asbestos mining fields of South Africa, it is very possible that some of our American readers will desire to get in touch with him, and in turn Mr. Kupferburger will no doubt be desirous of making contacts with many in the American asbestos industry which will be mutually beneficial.

We are therefore pleased to introduce Mr. Kupferburger to our readers and ask that any communication received from him be given courteous and careful attention.

Mr. Kupferburger has written an article for publication in "ASBESTOS," dwelling, at our request, on the chrysotile asbestos industry in South Africa, the South African chrysotile deposits having been discussed very little in our pages.

Trade Mark Service.

A new service has been started this month—that of reporting trade marks issued on Asbestos products.

A full description of this service, and particularly the general service on trade-marks it offers to our readers, will be found on page 50.

If you have occasion to communicate with the National Trade Mark Company in connection with trade marks, it may profit you to mention that you are a reader of "ASBESTOS."

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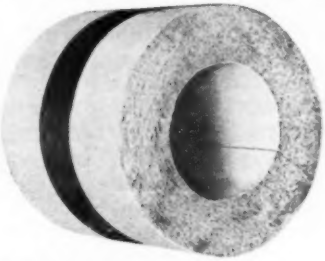

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PAPER - MILLBOARD - CEMENT

The Asbestos Promoter again Appears.

As usual when Asbestos prices rise, promotion enterprises start up, generally with utter disregard of the necessity of having a real asbestos deposit behind them.

We believe it well to caution our readers that they should carefully investigate any asbestos promotion schemes, as many of them are likely to be of the "blue sky" or "fly by night" variety.

There are, of course, from time to time, legitimate asbestos enterprises which are worthy of support, and likewise may prove profitable investments, but it is not a hard matter to distinguish the good from the bad, and "ASBESTOS" stands ready at all times to help in such investigations.

Perhaps the public is not quite so gullible at the present time, so far as asbestos is concerned, as it has been at times in the past, word having reached us that several promoters in the Arizona Asbestos district have left for other fields of adventure, not being able to raise the necessary funds to organize new asbestos companies.

Insulation a Popular Subject.

Judging from the several articles we have recently run across in various magazines, it would seem that insulation is becoming a very popular subject for discussion.

The India Rubber Journal recently published an account of "Alfol" Heat Insulation, which is described as consisting of thin foil of aluminum, built up in layers until the desired thickness is reached. The whole is protected by a substantial sleeve of sheet metal or other suitable material. The material claims low weight as its chief advantage.

In another journal we read of the use of sphagnum moss as house insulation. This material comes from the sphagnum bogs in Sweden, and is made into an insulation matting consisting of layers of the moss fibres stitched between two sheets of kraft paper. The material is said to contain a large percentage of tannic acid, a wood preservative, and is therefore particularly desirable in connection with timber structures.

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There is vast opportunity in the insulation field, and time spent in its study should be well repaid.

Erroneous Statements.

We are frequently amused by the erroneous statements made in newspapers and sometimes in magazines concerning Asbestos.

An instance of the very superficial knowledge which most people have of asbestos, is recorded in a Johannesburg newspaper of recent date (Johannesburg of all places—literally surrounded by asbestos deposits.) The article states that the principal use of chrysotile asbestos is for the manufacture of fabrics, stockings, etc., and further that asbestos is largely used in the manufacture of artificial silk.

The article ends by stating that Rhodesia and the Union of South Africa, practically control the market for asbestos fibre, "as the American fibre does not have the tensile strength of the South African." Our Canadian and Arizona readers,will no doubt be surprised to know this.

The misstatements appear to be made from ignorance rather than any intent to mislead.

Artificial Silk and Asbestos.

Every little while someone comes along with an assertion, or a suggestion or rumor, or perhaps a question, as to the use of asbestos in the manufacture of artificial silk.

Only a few days ago we received a query of this sort, and in an endeavor to determine once and for all whether any asbestos is ever, or has ever been used in the manufacture of artificial silk, we are putting this up to our readers.

If anyone knows of the use of asbestos for this purpose, we would be glad to have the details, or at least sufficient information that we may get the details.

Our private opinion is that asbestos is not used in artificial silk, altho it may be possible that experiments have in the past been conducted along this line.

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Derby Doublers

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Charlotte, N. C. **Atlanta, Ga.**

The Muessman Asbestos Co.

The Muessman Asbestos Manufacturing Company, whose new plant is pictured above, was organized about six years ago by Vincent C. Muessman, who is the sole owner of the firm.

Mr. Muessman was connected with the Racich Asbestos Manufacturing Company of Long Island City, N. Y., previous to establishing his own Company, having served them as factory superintendent for about ten years.

Mr. Muessman's first plant was only 20′ x 28′. About a year ago he started this new plant, located at 3258-60 Sixty-second Street, Woodside, Long Island, N. Y., which has 15,000 square feet of floor space, equipped with modern machinery for the manufacture of pipe and boiler covering. Corrugated Paper, Air Cell Covering, Corrugated Wool Felt, Solid Wool Felt Covering for cold water piping, cements and an anti-freeze covering are some of the products now made by this plant.

The firm handles contract work, and other matters in connection with asbestos. Recently Mr. Muessman has invented a new covering—"Spiral-cell," which he states will be on the market shortly.

AMERICAN ASBESTOS COMPANY

Manufacturers of
Asbestos Textiles

NORRISTOWN, PA., U. S. A.

Headquarters for
Yarns, Cloth, Tapes, Fibres, Brake Linings and Textiles Generally

WRITE FOR PRESENT PRICES

ASBESTOS

The April meeting of the Asbestos Brake Lining Association will be held at Washington on April 13th or 20th to bring to a conclusion their plans for adopting a Code of Ethics. It is expected that officials of the Federal Trade Commission will attend this meeting in an advisory capacity to aid in insuring the adoption of a Code of Ethics to include fair trade practices which will be of benefit to all users as well as Distributors of Asbestos Brake Lining.

Deliveries are now being made of the new 1928 Data Book of Clutch Facing and Brake Lining sizes. Copies will be sent anyone interested upon application to the Association at 7 East 44th Street, New York City.

BRAKE SQUEAK

When your brakes squeak do not blame it on the lining until you have checked:

1. Proper adjustment of the bands or shoe to the drum.
2. Rivet heads, dragging on the drum.
3. Drum for scoring or out of round.
4. Presence of grit or other foreign matter embedded in lining.
6. Loose anchor bolts or brake rods.
6. Rusted parts.

Refer your brake problems to the Technical Committee of the Asbestos Brake Lining Association.

AUTOMOBILE PRODUCTION

During February 335,872 motor vehicles were produced in the United States and Canada, of which 301,145 were passenger cars, and 34,727 trucks, buses, etc. This was quite an increase over January, the total during that month being only 240,110, according to revised figures published by the U. S. Department of Commerce. Of these 240,110, 212,248 were passenger cars, 27,862 trucks, meaning that about 92% of the increase in February over January was in passenger cars.

Production for February 1927 was 323,418, over 10,000 less than in February of this year.

ACOUSTICAL & ANTI-VIBRATION TREATMENT
Engineered & Installed Anywhere
STONE INDUSTRIAL EQUIPMENT COMPANY
Wallingford SPRINGFIELD, MASS. Boston

MARKET

ASBESTOS S.V.K. ST. NIKLAAS CEMENT

TRADE MARK

ASBESTOS-CEMENT
SHINGLES
CORRUGATED
SHEETS
AND LUMBER,

ARE USED EXTENSIVELY BY THE BELGIAN RAILWAY AUTHORITIES & WAR DEPARTMENT.
THIS IS PROOF OF THEIR QUALITY.

L. Scheerders-Van Kerchove,
St. Niklaas (Waes)
Belgium

QUOTATIONS, LITERATURE and SAMPLES SUBMITTED TO ANYONE INTERESTED.

Sometimes we despair of saying "anything new" when writing of market conditions, for the changes from month to month are often so negligible that there is nothing new to say.

"Going on as usual" seems to about sum up the general condition of business. There are, as always, a few worrisome factors:—the unemployment situation at the present, the flurry caused by presidential year, uncertainty as to what Congress may or may not do, etc.

Asbestos.

In the asbestos line there is, likewise, little change from last month. Soon the severe weather conditions at the Canadian mines will be over, and production will be much increased. March shipments from Canada showed some increase over February. Prices are stable and demand good.

A strong demand for good blue asbestos fibre is reported from South Africa, grades ¾ in. and upward being mostly required. Good demand for African white crudes is

CONDITIONS

also said to exist and prices are firm. Demand for shorter grades in both white and blue is increasing.

The market for asbestos manufactured products continues quite satisfactory.

The insulation line shows slight falling off in volume from last year but really very, very slight. Prices are fairly firm.

Affairs in the Asbestos Brake Lining Industry are progressing quite smoothly, with good volume, and prices not quite as good as they ought to be, considering the immense demand for the material, and the advancing trend of raw materials.

The asbestos cement product division of the industry is expanding rapidly. The advertising of one of the large manufacturers of asbestos cement products in the United States will, it is said, reach 25,000,000 people during the present year. Other manufacturers are extending their advertising appropriations, and with an article of such

TRADE MARK

"EVERITE"
Asbestos Cement
Shingles
Lumber
Corrugated Sheets

"GIFFA"
Decorative
Wall Lining
(patented)

The best imitation of Marble Panels measuring 8' 3" x 4'
27 Patterns

Apply for Prices, Pamphlet and Free Samples

Societe Francaise de "l'Everite"
Plaine St. Denis
nr. Paris
and Bassens nr.
Bordeaux
(France)

popular appeal as the asbestos cement shingle, to say nothing of its many and varied advantages, widespread publicity should very quickly put asbestos shingles at the top of the list of popular roofings.

Building statistics show large increases during the past month (see page 51) and after all building is the index of progress for many asbestos products, particularly paper and board, insulation and roofings.

It would appear, in the face of this large increase in building, with increases also showing in the automobile industry, that the asbestos industry has a good year before it.

Our English correspondent tells us that, as a result mainly of the increasing cost of crudes and fibres generally, prices of asbestos textiles have shown an advance in recent months. Improvement in shipyard business and large electrical developments in England, mean increased business for lagging, textiles, etc.

A complete new line of solenoid brakes are now being offered by the General Electric Company. The brakes are especially designed for severe service in connection with mill, crane and hoist motors. Compressed, woven asbestos lining furnishes the braking surface for the shoes and, according to the General Electric Company's statement, is not affected by heat or moisture.

Now they say some one has been trying to corner all the asbestos. Well, there is nothing like being prepared.—*American Lumberman*—quoted by *Literary Digest*.

We are in the market for

RHODESIAN AND CANADIAN ASBESTOS

Chrysotile — Blue — Amosite

E. GROSS & CO., Inc.

Hartford, Conn. (Main Office)

200 Fifth Avenue, NEW YORK CITY

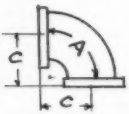
Asbestos Fibre

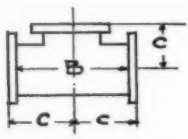
for the manufacture of

Roofing Cements · Fibrous Paints
Filtration Packings
Asbestos Shingles and Lumber
Insulating Cements
Asbestos Paper · Pipe Coverings
Asbestos Millboard
High Temperature Cements

THE QUEBEC ASBESTOS CORPORATION

Office and Mines
EAST BROUGHTON, PROVINCE *of* QUEBEC
CANADA





Mean Area Standard Weight Flanged Fittings

Size of Pipe	Thickness of metal of Fittings	Circumference Fittings	Length of Fittings	Length of Fitting	Center to Face x 2	Area of metal Sur.	do		Average Area Heat Sur.	Thickness of Insulation 1" Thick	do	
			A	B	C-C	E11	Tee	E&T	E11	Tee	E&T	Average mean Area 1½" Th.
1	7/16	7	4¾	6⅛	7	¼	⅓	⅓	½	½	½	
1¼	"	8	5	6½	7½	⅓	⅓	⅓	½	½	½	
1½	"	8¾	5½	6⅞	8	⅓	½	⅖	½	⅝	½	
2	"	10¼	6	7¾	9	½	⅗	½	⅔	1	⅞	
2½	"	12	7	8⅞	10	⅗	¾	⅔	⅞	1	1	
3	"	13¾	7½	9½	11	⅘	1	1	1	1¼	1¼	
3½	"	15⅓	8¼	10⅜	12	1	1⅛	1	1¼	1½	1½	
4	½	17⅓	8¾	11⅛	13	1¼	1⅛	1⅛	1½	1⅝	1½	
4½	"	19	9½	12⅛	14	1⅓	1½	1½	1⅔	2	2	
5	"	20½	10⅛	13⅛	15	1½	2	1⅝	2	2¼	2	
6	9/16	24½	11	14	16	2	2½	2⅛	2½	2¾	2⅝	
7	⅝	28	11⅜	14⅛	17	2½	3	2⅔	3	3⅓	3¼	
8	"	31	12⅔	15¾	18	3	3½	3¼	3	4	3½	
9	11/16	34½	14	17¾	20	3½	4½	3¼	4	5	4½	
10	¾	35½	15⅜	19⅛	22	4	5	4½	4½	5½	5	
12	13/16	45	17	21½	24	5½	7	6½	6	7⅓	6¾	
14	⅞	53	20	25¼	28	7½	9	8⅓	8¼	10	9	
16	1	56½	21⅛	27⅛	30	8½	10⅛	9⅜	9½	11⅛	10½	
18	1 1/16	63¼	23½	29⅞	33	10¾	13	12	11⅝	14¼	13	
20	1⅛	70	26	32⅛	36	13	16	14⅞	13¾	17	15½	
22	1 3/16	76½	28⅝	36⅜	40	15¾	19	17⅓	16½	20½	18⅞	
24	1¼	83½	31½	40⅛	44	19	23	21	20	24½	22½	
26	1 5/16	90	33	42	46	21	26¼	24	22½	27	25	
30	1 7/16	103	36	45½	50	26½	33	30	28	34	31	

Note: Use Metal area to secure area of Blocks
For ½ Cement over 1" Blocks allow 33⅓% of Metal Area
" ½ " " " 1½" " " 40% " " "
" ½ " " " 2" " " 50% " " "

CONTRACTORS AND DISTRIBUTORS PAGE

THE TABLE FOR FINDING THE AREAS OF FLANGED FITTINGS

(Supplied thru the courtesy of the Asbestos Board of Trade of New York City)

Last month we published a table for the finding of areas of screwed fittings.

The table on the opposite page shows how to arrive at the areas of material requirements for *flanged* fittings.

This flanged fitting table goes into more detail than the one for screwed fittings, and the sketches at the top will probably make the table easier to understand.

It will be noted that the extreme vertical right hand column indicates the mean area of the insulation requirements where solid cement is used.

If the fitting is to be insulated with block insulation, followed by cement, the fourth column from the extreme right-hand side of the table should be used for the block insulation, and for the cement necessary to cover the blocks, the allowance indicated at the bottom of the table should be used.

WAGE NOTES

Houston, San Antonio, Dallas, Texas. Agreement with asbestos workers expired March 31st, 1928. New Agreement has not yet been signed, the men at present working on the old scale, i. e., 1.18¾, without agreement.

Cleveland, Akron and Youngstown Agreements have not yet been signed, but negotiations are in progress.

Our readers may be interested to know that the organization known as the International Association of Heat and Frost Insulators and Asbestos Workers, is thirty years old. Before the present organization there existed in various cities the Pipe Coverers' Protective Union, Salamander Association, Pipe Coverers Union and the Pipe and Boiler Coverers' Union. It was really not until 1903 that the various locals formed a national association.

The full history is contained in the March issue of The Asbestos Worker, published by the International Association of Heat and Frost Insulators and Asbestos Workers, from the office of Lopez Company, Inc., 3 School Street, Boston, Mass.

Joseph A. Mullaney, President of the I. A. H. & F. I. & A. W., is celebrating his 40th Anniversary as an Asbestos Worker, beginning the trade as a helper in 1888.

"CAPE" BLUE ASBESTOS

POSSESSES

DURABLE & NON-CONDUCTING QUALITIES

unequalled by any other asbestos, besides which it has:

(1) Greater tensile strength
(2) Greater specific volume
(3) Greater resiliency

SPECIALTIES:—

ALL CHEMICALLY PURE i. e. 100% ASBESTOS

"Pluto" Blue Asbestos **Mattresses** for Locomotive and Marine Boilers, etc.

Blue **Cloth** for Acid Filtration

"Bluejacket" **Sectional Covering** for steam pipes (100% Asbestos)

THE RAW MATERIAL IS GRADED AS FOLLOWS:

"S" Crude from ¼ in. to ½ in. in length of fibre
"A" Crude from ½ in. to ¾ in. in length of fibre
"B" Crude from ¾ in. upwards in length of fibre

Prices for Crude can be obtained on application direct to the Cape Asbestos Co. Ltd.

The Cape Asbestos Co Limited
Morley House 26-30 Holborn Viaduct London E.C.1.
Factory, Barking, Essex

Telegrams:— "Incorrupt," London. Telephone City 6937

Sole Representatives for the sale of blue manufactured goods in America.

The United States Asbestos Co. Manheim, Penna.

PRODUCTION STATISTICS

Africa—Rhodesia.

Bulawayo District.	December 1927 Tons (2000 lbs.)	Value
Biltong (Vukwe Asb. Syn. Ltd.)	10	£ 200
Nil Desperandum & Sphinx (Afr. Asb. Mng. Co. Ltd.)	701	15,396
Norma (F. E. Dunsmuir), Oct./Dec.	119	2,380
Pangani (J. S. Hancock)	11	177
Shabanie (Rho. & Gen. Asb. Corp. Ltd). ..	1,045	20,902
Lomagundi District.		
Ethel (Union & Rho. Tr. Ltd.)	61	1.229
Victoria District.		
Gath's (R. & Gen. Asb. Corp. Ltd.)	601	12,015
King (R. & Gen. Asb. Corp. Ltd.)	296	5.921
	2,844	£58,191
Deduct:		
Gath's (R. G. Asb. Corp. Ltd.) over-declared on adjustment to 3/31/27 ...		7,811
	2,844	£50,380
December 1926	2,383	44,969

Production of Rhodesia for the years 1926 and 1927, by months, in tons of 2,000 pounds.

	1926	1927		1926	1927
January	2,552.25	3,255.05	July	3,111.56	2,770.18
February	2,166.33	2,401.38	August	3,294.78	3,005.98
March	2,588.21	2,818.66	September .	2,916.21	2,538.65
April	3,258.14	3,170.81	October	2,191.50	2,216.94
May	3,557.76	2,781.31	November ..	2,115.61	2,422.22
June	3,208.59	2,949.74	December .	2,383.15	2,844.69
				33,344.09	33,175.61

India. (Geological Survey of India) 1926

Seraihela	40	tons
Cuddapah District	18.4	"
India.. (Geological Survey of India)		1926
Total	58.4	"

Africa—Union of South Africa.

Summary of Production in Union of South Africa for the years 1926 and 1927, *by months* in tons of 2,000 pounds.

	1926	1927		1926	1927
January	691	1,230	July	1,073	2,597
February	1,178	1,417	August	1,598	2,228
March	1,282	1,443	September	998	1,829
April	1,581	2,265	October	1,294	1,933
May	698	2,442	November	1,095	1,810
June	1,619	1,642	December	989	1,297
				14,096	22,133

Summary of Production in Union of South Africa *by grades* for the year 1927, in tons of 2000 pounds.

	Tons	Value
Transvaal (Amosite)	5,091	£ 50,299
Transvaal (Chrysotile)	12,171	184,897
Transvaal (Blue)	32	1,185
	17,294	236,381
Cape (Blue)	4,839	106,900
Total	22,133	£343,281

Canada.

The Preliminary Statement on the Mineral Production in the Province of Quebec during 1927, gives the following figures for Sales of Asbestos from that Province during last year:

	1927 Sales		Average Value	Stocks on Hand Dec. 31, 1927	
	Tons	Value	Per Ton	Tons	Value
Crude No. 1	1,107	$ 468,980	$423.65	303	$ 128,366
Crude No. 2	3,014	752,277	249.59	68	16,972
Crude, run of mine	667	151,232	226.73	...	.....
Spinning Fibre	14,348	1,855,425	129.32	579	74,876
Shingle Fibre	44,593	2,889,682	64.80	3,472	224,986
Millboard and Paper Fibres	60,396	2,284,021	37.82	25,456	962,746
Fillers, floats and other short fibres	150,673	2,219,955	14.73	26,934	396,738
Totals	274,798	$10,621,571	$38.65	56,812	$1,804,684
By-products (sand and gravel)	18,974	11,101	0.58		
Total	293,772	10,632,672		56,812	1,804,684

CYPRUS ASBESTOS COMPANY

LIMITED

PRODUCTION

of

CYPRUS FIBRE

1925 - 1928

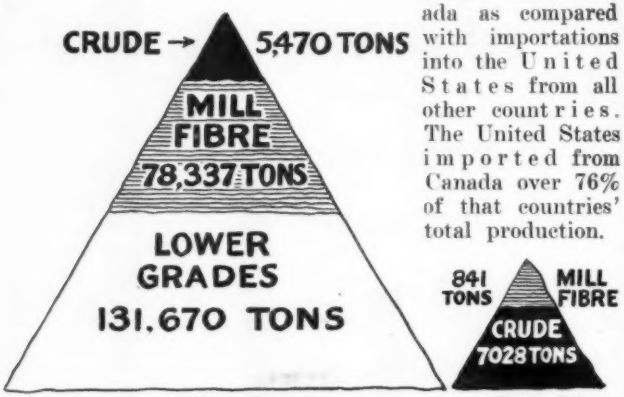
SOLE SELLING AGENTS

CYPRUS TRADING CORPORATION, Ltd.

49 ST. JAMES'S STREET, LONDON, S. W. I.

From these figures, and the record of stocks on hand December 31st, 1926, we have calculated the actual production during 1927, and used the actual production figures in making up the graph on page 2. Note that the figures shown in the graph for 1926 production have been slightly revised from those given last year.

We believe our readers will also be interested in the graphs showing importations of Asbestos into the United States from Canada as compared with importations into the United States from all other countries. The United States imported from Canada over 76% of that countries' total production.



From Canada — From Other Countries

What is a detour? The roughest distance between two points.

Steady Market For Asbestos Waste

Always in the market for all kinds of

ASBESTOS WASTE — car lots or less

Send samples stating quantity.

If you are in need of waste will mail sample of what we have to offer.

LOUIS LEONARDIS 15 Park Row NEW YORK CITY

Warehouse: Newark, N. J.

Imports into U. S. A.

Unmanufactured Asbestos.

	February 1927		February 1928	
	Tons (2240 lbs.)	Value	Tons (2240 lbs.)	Value
Africa (Br. S.)	196	$ 28,996	322	$ 75,905
Africa (Port. E.)	6	1,890	...	...
Belgium	...	...	100	16,778
Canada	13,244	553,807	16,149	525,955
Germany	102	26,810	170	48,065
Italy	...	...	...	406
United Kingdom	23	8,261	14	2,761
	13,571	$619,764	16,755	$669,870
Tabulation of Crude Only:				
Africa (Br. S.)	196	28,996	300	72,944
Africa (Port. E.)	6	1,890	...	...
Canada	447	128,225	284	64,960
Germany	102	26,810	170	48,065
Italy	...	...	...	406
United Kingdom	22	8,217	14	2,761
	773	$194,138	768	$189,136

Of the balance of material imported during February 1928, material from Belgium, 100 tons, valued at $16,778, was Mill Fibre, and 22 tons, valued at $2,961, from British South Africa was Mill Fibre. Of the Canadian material, 5,194 tons valued at $285,514 was Mill Fibre, and 10,671 tons valued at $175,481, lower grades.

Manufactured Asbestos.

	February 1927		February 1928	
	Pounds	Value	Pounds	Value
Yarn—				
Germany	...	...	1,258	$ 1,310
Italy	99	90	...	...
United Kingdom	20,974	6,179	63,519	18,416
Fabrics, Woven—				
United Kingdom	1,791	2,040	4,733	3,892
Packing, Fabric—				
United Kingdom	1,382	1,122	6,480	1,808

ASBESTOS

	February 1927 Pounds	February 1927 Value	February 1928 Pounds	February 1928 Value
Packing, not Fabric—				
Austria	9,607	2,070	4,363	941
Canada	...	...	363	244
Germany	3,641	789	4,739	1,194
United Kingdom	...	...	3,571	1,171
Paper and Millboard—None.				
Shingles, Slate, Wood and Lumber—				
Belgium	9,272,697	$132,598	11,639,197	$153,197
Canada	...	...	5,685	189
France	992,598	19,050	2,243,740	28,871
Germany	...	...	326,122	5,588
Italy	120,465	2,404	15,131	225
Netherlands	274,353	4,345	65,694	976
	10,660,113	$158,397	14,295,569	$189,046
Asbestos Cement—				
Canada	...	...	500	15
Other Manufactures—				
Austria	8	4	326	592
Belgium	30,000	3,993	...	...
Canada	716	34	6,757	368
Germany	182	410	154	121
United Kingdom	2,271	799	2,025	1,247
	33,177	$5,240	9,262	$2,328
Grand Total	*10,730,784*	*$175,927*	*14,394,357*	*$220,365*

Shingles, Slate, Wood and Lumber—by Districts.

District	February 1928 Pounds	February 1928 Value
St. Lawrence	5,085	$ 158
Vermont	600	31
Rhode Island	50,981	684
New York	876,701	13,192
Philadelphia	23,615	363
Georgia	236,615	4,236
Florida	393,349	5,546
New Orleans	7,104,865	92,130
Galveston	5,589,268	72,517
Los Angeles	14,490	189
	14,295,569	$189,046

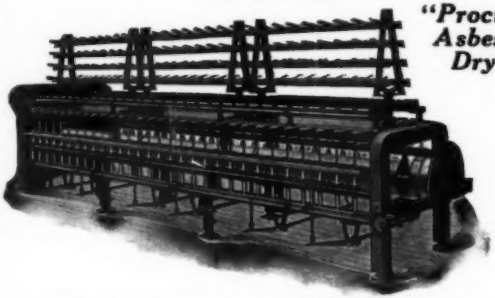
In February "ASBESTOS" under imports of "Other Manufactures," we reported an item of 38,716 pounds from Belgium, and one of 10,564 pounds from France. As these seemed quite large quantities to be reported under the general classification of "Other Manufactures," we wrote the Department of Commerce, from which these figures are obtained, asking if an error had not been made.

The Department very kindly investigated and found that

ASBESTOS YARN MACHINERY

"Smith-Furbush"

"Proctor" Asbestos Dryers



PROCTOR & SCHWARTZ, INC.

Formerly Smith & Furbush Machine Co.

Seventh St. & Tabor Rd., Philadelphia, Pa.

Nederlandsche Asbest My.

Importers of Asbestos
Crudes and Fibres

ROTTERDAM - HOLLAND

Tel. Address:
Nedam Rotterdam

P. O. BOX 803

Codes
A B.C. 5th & 6th Edition
Western Union
Lieber's Code
Lieber's Latest Code
Bentley's Complete Phrase Code

both these items should have been placed under the "Shingles, Slate, Wood and Lumber" classification. Furthermore they tell us that other items reported under the classification "Other Manufactures" should have been included under "Packings not fabric" and "Woven fabrics," etc.

We have endeavored to impress upon the Department the necessity for more care on the part of their clerks in classifying asbestos materials, and in future when large items appear under the "Other Manufactures" classification, will promptly bring them to the Department's attention, in the hope that persistent questioning of such items will result in greater accuracy.

Exports from U. S. A.

Exports of unmanufactured Asbestos during the month of January[1] 1928, totalled 93 tons, valued at $20,840, while the previous year, in January (1927) 13 tons, valued at $1,538, were exported.

Exports of Manufactured Asbestos Goods:

	January 1927		January 1928	
	Pounds	Value	Pounds	Value
Paper, Mlbd. & Rlbd...	93,384	$ 8,993	160,425	$12,314
Pipe Covg. & Cement..	412,527	25,653	249,467	16,365
Textiles, Yarn & Pkg.	96,309	62,369	133,328	69,684
Brake & Clutch Lin'ng[2]	91,699	64,960	574,660 li. ft.	108,114
Asbestos Roofing	6,266 sqs.	59,370	3,549 sqs.	23,314
Magnesia & Mfrs. of...	462,869	30,766	622,629	44,371
Other Asbestos Mfrs...	319,659	32,735	253,088	29,998

[1]Exports figures are one month behind import figures.

[2]Note that 1928 figures for Brake and Clutch Lining are given in lineal feet rather than in pounds.

Imports and Exports by England.

Imports of Raw Material.

	February 1927		February 1928	
	Tons (2240 lbs.)	Value	Tons (2240 lbs.)	Value
From Rhodesia	404	£15,049	481	£ 17,215
From Canada	1,062	15,355	750	13,547
From Other Countries	200	6,067	321	10,329
	1,666	36,471	1,552	41,091
Re-Shipments	260	8,270	260	8,250

Exports of Asbestos Manufactured Goods:

To Netherlands	19	3,095	85	5,178
To France	30	3,189	52	7,235
To U. S. A.	29	4,022	25	4,071
To British India	969	15,731	798	13,705
To Australia	24	5,949	34	4,369
To Other Countries	1,433	49,459	1,450	70,589
	2,504	£81,445	2,444	£105,147

Exports of Raw Asbestos from Canada.

	February 1927		February 1928	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
United Kingdom	671	$ 50,515	830	$ 60,225
United States	6,548	459,074	5,151	331,879
Australia	100	7,000	55	4,125
Belgium	135	11,850	200	16,750
Germany	70	6,450	368	39,682
Italy	417	25,230	308	25,180
Japan	1,630	89,200	435	21,730
Netherlands	...	...	26	4,450
Spain	...	...	30	3,750
Other Countries	1	65	...	...
Total	9,572	649,384	7,403	507,771
Sand and Waste—				
United Kingdom	261	5,812	115	2,875
United States	8,192	125,761	11,957	183,780
Belgium	60	900	...	...
Germany	30	353	90	2,250
Italy	...	...	55	1,375
Japan	...	...	60	1,500
Netherlands	8,543	132,826	12,332	193,155
Total	8,543	132,826	12,332	193,155
Grand Total	*18,115*	*$782,210*	*19,735*	*$700,926*

SPECIAL PROBLEMS SOLVED
ASBESTOS TEXTILES & INSULATIONS
STONE INDUSTRIAL EQUIPMENT CO.
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Old respectable asbestos importing concern, with good business relations among entire German asbestos industry, large storage rooms connected with ship dock and railroad, desires to assume exclusive representation in Germany for productive and active Canadian asbestos mine. Address 2FD-DG, "ASBESTOS."

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"DURACO" BRAKE & CLUTCH LININGS
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Spinners, Weavers and Manufacturers of Asbestos in all its forms.

NEWS OF THE INDUSTRY

Birthdays. Our birthday list this month includes George A. MacLellan, Managing Director of George MacLellan & Co., Glasgow, Scotland, whose birthday date is April 19th; John P. Kerner, President, Mohawk Asbestos Slate Co., Inc., Utica, N. Y., April 25th; J. Carroll Johnston, President & Treasurer, Atlas Asbestos Company, North Wales, Pa., April 28th; and Alvin M. Ehret, President Ehret Magnesia Mfg. Company, Valley Forge, Pa., on May 15th. We extend our hearty congratulations and best wishes to these gentlemen.

The General Insulating & Mfg. Company, has established its general office at its factory at Alexandria, Ind. This Company manufactures and sells Rock Wool Insulation materials.

The Springfield Insulators Association has recently been formed in Springfield, Mass., with headquarters in that town, for the purpose of promoting co-operation between the shops and the trade. Thomas D. Stone, (President of the Stone Industrial Equipment Company of Springfield) is President of the Association; Frank Hinman (President of the Hinman Asbestos Company, Cambridge, Mass.,) is Vice President, and the Secretary and Treasurer is P. M. Taft (President of the P. M. Taft Asbestos Company, of Holyoke, Mass.)

The Asbestos Brake Lining Association announces the removal of its office to Suite 1505, Hale Building, 7 East 44th Street, New York City. They were formerly located at 578 Madison Avenue. Their new telephone number is Murray Hill 2927.

Oliver L. Jentzel, Jr., is the Providence (R. I.) representative (salesman and estimator) of the Philip Carey Company, having been connected with the Philip

Carey Company since February 1st, 1927. Mr. Jentzel was formerly in charge of the Construction Department of the Eastern Asbestos Company of Providence, and prior to that connection served the Keasbey & Mattison Company as Salesman in the same territory, so that his experience in the Asbestos and Insulation line covers something like eight years.

Eternit, Inc., 15th & Locust Street, Philadelphia, Pa., manufacturers of Asbestos Shingles, Asbestos Lumber and Asbestos Corrugated Roofing and Siding, has opened a sales office and factory branch at Municipal Warehouses, Houston, Texas, where large stocks will be maintained.

H. F. Cashmore, Southern Sales Manager of Eternit, Inc., is in charge of operations. C. J. Crassons, Jr., formerly with the New Orleans Office of Eternit, Inc., will be manager of the Houston office. L. M. Hamner will also be connected with the Houston Office.

New Amianthus Mine. H. N. Fuller, formerly Underground Manager of the Cason section of the E. R. P. M., has been appointed Manager of the New Amianthus Mine (controlled by Turner & Newall). Mr. Kirkman has been appointed Manager of Dominions Blue Asbestos Mines.

The Kloof Asbestos Co. Ltd., is the name of the Company which is developing the Karkkloof asbestos property, at Kaal Kloof in the Kaapsche Hoop District. The capital is £75,000 nominal with £50,000 issued.

The S. A. Mining and Engineering Journal, on page 653 of its February 18th issue, contains an article "The Union's Blue Asbestos," which is in answer to an article which appeared in the January 28th issue of that Journal "Misconceptions About Blue Asbestos."

Anyone interested in South African Asbestos Mining should read these two articles, copies of which are in this office and will be furnished free upon request.

Freight Classifications. It has been proposed by shippers that a classification be established for Asbestos Lumber Panels with Angle Iron Frames (which commodity has not been previously provided for) the proposed rating being, in boxes or crates, L. C. L., 2nd Class in all classifications; in boxes or crates, C. L., min. wt. 30,000 lbs., 5th Class in all classifications.

Carriers have proposed a change in classification of Asbestos Washers or Gaskets. These formerly took 3rd class rating in the official classification 2nd Class in Southern and Western, and it is proposed that they be placed in 2nd Class in the Official and Western Classifications.

Hearings will be had in New York (Room 408, 143 Liberty St.), April 10th; Chicago Union Station (Room 404) April 17th, and in Atlanta, Ga., (Room 1015, 101 Marietta St.,) April 25th.

The Asbestos Shingle, Slate & Sheathing Company, of Ambler, are issuing to their customers and friends, a very convenient diary and memo book, which besides a lot of general information contains data concerning Ambler Asbestos Shingles, with

illustrations of the various types and colors.

The Asbestos Corporation Limited publishes its annual report for 1927, and Balance Sheet as of December 31st, 1927, is published below:

ASSETS

Investments (Inc. Dom. Govt. Bonds)	$1,067,418.08	
Inventories of Asbestos, Matls. & Sup.	1,044,094.89	
Accounts and Bills Receivable	982,577.06	
Cash	363,728.80	$ 3,457,818.83
Sinking Fund Cash in hands of Trustees	19,297.24	
Other amounts deposited Trust Deeds	8,522.60	27,819.84
Deferred Charges to Operations		59,614.06
Mineral Areas, Real Estate, Plant and Equip., less reserves for Depre. Plant and Exhaustion of Minerals		20,598,156.55
		$24,143,409.28

LIABILITIES

Accounts Payable	$ 379,045.27	
Accrued Liabilities	15,479.53	
Preferred Dividend (paid Jan. 14, 1928)	130,481.75	525,006.55
Reserves for Contingencies and Govt. Taxes		217,423.03
Funded Debt		7,810,142.17
Preferred Stock ($12,000,000 authorized)		7,456,400.00
Common Sotck (200,000 shs. No Par Value)	7,756,010.42	
Surplus Profits for year	378,427.11	8,134,437.53
		$24,143,409.28

The report, which is contained in an attractive 24 page booklet, is illustrated by photos of the new Beaver Mill under construction, the Vimy Ridge, Pit, etc.

Southern Asbestos Company, according to newspaper reports, show a profit for 1927 of $164,000, against $110,000 in 1926, equal to $5 a share per annum on the common stock. Sales for the last six months of 1927 were reported to be $973,350 against $810,677 for the same period of 1926. Current assets were reported as $726,630, against current liabilities of $103,523.

E. Schaaf-Regelman is at present in Arizona, looking after his interests in the Regal Asbestos Mines there. He will return to New York the latter part of April.

Ambler Asbestos "Waltile" is attractively illustrated in the four page folder just off the press of the Asbestos Shingle, Slate & Sheathing Company. The material is finding favor for use in bathrooms, lavatories, kitchens, etc., and later will be manufactured in the new plant at Cornwall Heights, Penna.

Eternit, Inc. Readers will be interested to note the very attractive double page, color, advertisement, which appeared in the March 31st issue of the Saturday Evening Post, calling attention of the public to "Eternit" Asbestos Shingles.

"And what is her papa going to say?" is the catchy headline of a very clever advertisement of Rusco Brake Lining, which appeared in a recent issue (March 31st) of the Saturday Evening Post.

ASBESTOS

Rhodesia. No further discoveries of asbestos of any importonce are likely to be made on the known serpentine belts of Rhodesia, according to Roland Starkey, Consulting Engineer and General Manager for the asbestos interests of Turner & Newall. This statement is made by the S. A. Mining & Engineering Journal, which goes on to say that Mr. Starkey is hopeful that other asbestos bearing areas may be traced, the Turner interests having two well-equipped prospecting parties in the field at present.

Elwood J. Wilson, Incorporated, has recently been organized by Mr. Elwood J. Wilson, under the laws of the State of New Jersey, with a paid up capital of $100,000.

The officers are E. J. Wilson, President, F. M. Wilson, Treasurer, and M. M. Dodier, Secretary. The corporation will engage in the purchase and sale of asbestos and in the purchase and operation of asbestos mines.

Johns-Manville Corporation and subsidiaries report a net profit for 1927 of $4,108,159, after expenses, and Federal taxes. This is equal, after preferred dividend requirements, to $4.77 a share earned on 750,000 no par common shares, comparing with $3,778,373, or $4.33 a common share in 1926.

Sales in 1927 were $44,313,701 and operating profit $4.656,958. Current assets on December 31st, 1927 were $17,767,961, and current liabilities $3,451,062.

"The Physical Testing of Asbestos Brake Linings" is the title of a comprehensive article which appeared in the November 1, 1927 issue of the India Rubber World, the author of which is Carl F. Ogren, Research Engineer of the Thermoid Rubber Company of Trenton, N. J.

"The J-M Circle" is a new, and delightful, house organ published by Johns-Manville Corporation which, according to its own statement, is published "by, for and about Johns-Manville Employees." Undoubtedly the magazine will do much toward promoting the good fellowship among employees of Johns-Manville Corporation, and be of benefit to everyone in the J. M. organization. The Editor is Kenneth Moore, with headquarters at 292 Madison Avenue, New York City. The first (April) number is full of interest, even to an outsider, and we can realize how very welcome it will be to J. M. employees.

Clarence W. Carlisle, Sales Manager of the Boston District of Johns-Manville Corporation, passed away at his home in Wollaston, Mass., on Saturday, February 25th, after a five weeks' illness.

Mr. Carlisle joined the H. W. Johns-Manville Company on

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Executed Anywhere
Send Prints and Specifications to
STONE INDUSTRIAL EQUIPMENT COMPANY
SPRINGFIELD, MASS.

November 29, 1901, as a stenographer. Later he was made Manager of the Pointer Department, then promoted to the Insulation Department, to Assistant Branch Manager, and in September 1927, was appointed Sales Manager of the Boston District, covering the New England territory.

Mr. Carlisle has been on the subscription list of "ASBESTOS" for a number of years, and we therefore feel that we have lost an old and valued friend.

A new asbestos company is at present in process of formation, according to the South African Mining and Engineering Journal, for the purpose of developing and working a block of 2,000 asbestos bearing claims in the Pietersburg district known as the Blueasbestproperty. The claims lie about fifty miles east of Pietersburg, with which they are said to be connected by a good motor road. Favorable reports have been made on the property by well known Engineers. Both blue and amosite asbestos are found on the property. It is estimated that from £8,000 to £10,000 will be required to develop the property.

A. S. Royal, on March 1st, was appointed Manager of the Philadelphia District of Johns-Manville Corporation. Mr. Royal was formerly acting manager of the Philadelphia District Office, succeeding T. J. S. Nicely resigned. Previous to that he served as Special Sales Representative of the seven eastern districts, for a number of years. Mr. Royal has been connected with the Asbestos and Magnesia Industry for over 40 years, and we hope to publish the story of this long service in a future number of "ASBESTOS."

Certain-teed Products Corporation—Beaver Board Companies. Announcement was made on April 5th, of the purchase by the Certain-teed Products Corporation of the Beaver Board Companies.

The Beaver Board Companies own twenty large, modern plants, and these combined with the seventeen Certain-teed plants are ideally located with respect to routing of freight, etc.

The matter is of interest to the asbestos industry because both concerns manufacture competing materials—roofing, wallboard, etc., because the Beaver Board Companies make two asbestos products, and further because the Beaver Board Companies were contemplating the manufacture and sale of asbestos panels and it is probable that this development will continue under the new firm.

The combining of these two companies and their resources is expected to result in decreased cost of manufacture, caused by savings in overhead, etc.

Turner Brothers Asbestos Company Ltd., of Rochdale, England, have introduced an entirely new idea in the Cerval Multiple Tile, which is a boldly designed, readily fixed unit for the roofing of domestic dwellings. One of these tiles has a covering area and appearance of 16 ordinary sized tiles, but needs only one operation instead of 16 to cover the same area. The tiles are

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PLAIN AND METALLIC CLOTHS
BRAIDED AND WOVEN TAPES
BRAIDED TUBINGS
WOVEN SHEET PACKINGS
WOVEN BRAKE LININGS
GLOVES, MITTENS, LEGGINS
GASKETS, SEAMLESS AND JOINTED
PACKINGS, STEM AND HIGH PRESSURE
WICK AND ROPE

ASBESTOS FIBRE SPINNING COMPANY

NORTH WALES, — PENNA.

supplied in sheets 48 inches square, in various colors and designs. While our correspondent does not say, we assume that these tiles are an asbestos cement material.

Asbestos stocks have recently shown rapid rise in England, Turner & Newall Ltd. shares standing at 3⅝ at the end of March, and the Bells United Asbestos Company's at 3, while the Rhodesian & General Asbestos Corporation shares were 4⅞, the two former having risen nearly 20 s. per share within a few months. There are many rumors in the Financial Press of amalgamations but no definite information is as yet available. Our English Correspondent believes that the rising movement of Asbestos stocks is due to the fact that market recognizes the importance of Asbestos.

W. R. Olds, South African Manager for the Cape Asbestos Company, Ltd., expects to leave for England in June or July. During his absence his place will be taken by Capt. J. Thomas, who came out from England last year.

W. H. Addison has severed his connection with Dominion Blue Asbestos Co., Ltd., at Kuruman, where he has served as Manager since the flotation of the company, and, we understand intends to commence asbestos mining on his own account.

The H. F. Watson Company, The Continental Roofing & Manufacturing Company and The Ruberoid Company, have effected an agreement for the merging of the three companies. The firms, however, will operate in the same manner as they have in the past, without change in the personnel of any of the Companies. The H. F. Watson Company which was formerly a Pennsylvania Corporation, becomes under the terms of the merger a Delaware Corporation.

TRADE MARK DEPARTMENT

Conducted by National Trademark Company, 635 F. Street, N. W. Washington, D. C.

We have arranged with the National Trade Mark Company, 635 F. Street, N. W., Washington, D. C., to conduct this Department for our readers. The trade-marks have recently been passed for publication by the United States Patent Office and are in line for early registration unless opposition is filed. For further information address National Trade-Mark Company.

As an additional feature to its readers, this journal gladly offers to them an advance search free of charge on any mark they may contemplate adopting or registering. You may communicate with the Editor of this Department, or send your inquiry direct to the National Trade-Mark Company, stating that you are a reader of this Journal.

Fiberfraks. Ser. No. 260,562. Fiberfraks Incorporated, Lockport and New York, N. Y. Filed Jan. 24, 1928.

Fireboards and irregular shapes pressed from mixtures of

POWER PLANT EQUIPMENT
Ventilation and Refrigeration Machinery
Bought and Sold
STONE INDUSTRIAL EQUIPMENT COMPANY
Boston SPRINGFIELD, MASS. Brooklyn

various fibres and bonding material.

Houservice. Ser. No. 259,068. O'Neill Lumber Co., Inc., St. Louis, Mo. For cement, wall plaster, hydrated lime, rough and finishel lumber, wood shingles, wood and also metal sash and doors and window and door frames, wood moldings, roofing and shingles, asphalt and also asbestos, insulating papers, and wallboard, asbestos construction board, asbestos insulation, window screens, and metal weather strippings.

Keasbey & Mattison Company. A get-together meeting of branch managers and brake lining salesmen of the Keasbey & Mattison Company was held in Ambler on Friday, April 6, and Saturday, April 7. The particular purpose of the meeting was the discussion of brake lining in an educational way, the men being shown many things which would help them in their brake lining selling work. The New York, Chicago, Baltimore, Minneapolis, Cleveland, Pittsburgh, Boston, and Atlanta offices were represented at the meeting.

PATENTS

Heat Insulating Material. No. 1,657,582. Granted on January 31, to Wm. W. Odell, Minneapolis, Minn. Filed April 23, 1925. Serial No. 25,429. Contains plastic clay and prepared alkaline peat.

Building Roof. No. 1,658,591. Granted on February 7th, to Rene Dorn of New York City. Filed March 1, 1926. Serial No. 91,435. Composed of tiles having rough lower edges, etc.

Table Pad. No. 1,661,987. Granted on March 6th, to Louis M. Arnopol, Chicago, Ill. Filed Nov. 21, 1925. Serial No. 70,454. Contains Plastic mixture, rubber and asbestos.

BUILDING STATISTICS

Gratifying increase is shown in February Contracts Awarded over those awarded in January, and also over those awarded in February 1927.

The February figures are 13,368 projects, 68,847,400 square feet, with a value of $465,331,300. January figures were 11,799 projects, 63,716,900 square feet of floor space, and $427,168,700 valuation.

The February 1927 figures were 11,045 projects, 54,844,100 square feet of floor space, with valuation of $393,582,500.

Last minute reports from the F. W. Dodge Corporation state that March contracts amounted to $593,567,000, an increase of 27% over February, and the highest monthly contract total since June 1927.

Contracts awarded during the first quarter of 1928 totalled the highest amount ever recorded for the first quarter of any year.

Asbestos Prepared Roofing

3 Ply White Seal Asbestos Roofing
4 Ply White Seal Asbestos Roofing
4 Ply Fire Chief Asbestos Roofing, Burlap Center
3 Ply Black Seal Asbestos Roofing
4 Ply Black Seal Asbestos Roofing

These are all mineral products made to withstand the elements and give life time service.

Approved by the Board of Underwriters' for use in fire zones.

Highest quality Roofing manufactured.
First cost your only cost.

Asbestos Built-Up Roofing Felts

Asbestos Asphalt No. 2 Impregnated Felt
Asbescoat No. 67 Base Felt
Asbestos No. 30 Base Felt
Asbestos No. 35 Base Felt
2 Ply White Seal Asbestos Base Felt
2 Ply Black Seal Asbestos Base Felt

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